```sql
create table Hospital(
 hid int,
 hname varchar(50),
 haddress varchar(80),
 h_phone_number number,
 h_email varchar(60),
 primary key(hid)
 );

--------------------Creating and inserting Doctor table-------------------
create table Doctor(
did int,
dname varchar(50),
d_phonenumber number,
d_emailid varchar(60),
d_specialization varchar(55),
Doctor_Hospital_Treatment varchar(50),
hid int,-- added
 primary key(did),
 foreign key (hid) references Hospital);

 ----------------------Creating and inserting Nurse table--------------------------
create table Nurse(
Nurse_id int,
Nurse_name varchar(50),
hid int,
primary key(Nurse_id),
foreign key (hid) references Hospital );

--------------------------Creating and inserting Room table--------------------------------
create table Room(
rid int ,
hid int ,
Room_type varchar(20),
Room_location varchar(50),
start_time timestamp,
end_time timestamp,
primary key(rid),
foreign key(hid)references Hospital
);




------------------------Creating and inserting Shifttable_Nurse table------------------------
create table Shifttable_Nurse(
shift_id int,
Nurse_id int,
rid int,
shift_start_time timestamp,
shift_end_time timestamp,
primary key(shift_id),
foreign key(Nurse_id)references Nurse,
foreign key(rid)references Room );




--------------------------------Creating and inserting Patient table------------------------------------------
create table Patient(
pid int,
pname varchar(30) ,
pgender varchar(20),
pdob date,
paddress varchar(50),
p_phonenumber number,
p_email varchar(80),
primary key(pid)
);

--------------------------------Creating and inserting Admission table----------------------------------------
create table Admission (
aid int,
did int,
Prescription_id int,
current_admit_date date,
discharge_date date,
rid int,
discharge_note varchar(80),
admit_status varchar(50),
admit_reason varchar(55),
pid int,
hid int,
primary key(aid),
foreign key(pid)references Patient,
foreign key(hid)references Hospital,
foreign key(did)references Doctor,
foreign key(rid) references Room
```

```
);


-----------------------------------Creating and inserting Treatment table-------------------------------------
create table Treatment(
tid int,
aid int,
treatdob date,
treatment_name varchar(50),
tdescription varchar(80),
primary key(tid),
foreign key(aid) references Admission);

---------------------------------Creating and inserting Drug table---------------------------------------------
create table Drug(
drug_id int,
drug_name varchar(50),
dose_value varchar(50),
dose_perday varchar(60),
primary key(drug_id));

-----------------------------------------Creating and inserting Drug_allergy table-------------------------------------
create table Drug_allergy(
drg_alg_id int,
pid integer,
allergy varchar(50),
primary key(pid,drg_alg_id),----added
foreign key(pid)references patient);

---------------------------Creating and inserting Prescription table--------------------------------------------
create table Prescription(
prescription_id int,
drug_id int,
aid int,
prescription_date date,
number_of_days_drug int,
number_of_refills int,
primary key(prescription_id),
foreign key(drug_id)references drug,
foreign key(aid)references admission);

------------------------Creating and inserting Message table----------------------------------------------
create table Message
(
Message_id int,
Message_body varchar(60),
Message_time timestamp,
pid int,
did int,
primary key(Message_id),
foreign key(pid)references patient,
foreign key(did)references doctor);

---------------------------Creating and inserting Treatment_list table-----------------------------------------------Changed
create table treatment_list
(treatment_list_id int,
tid int,
t_info varchar (200),aid int, foreign key (tid) references treatment, foreign key (aid) references Admission, primary key(treatment_list_id));

-------------------------------Creating and inserting Doc_hospital_affiliation table-----------------------------------------
create table Doc_hospital_affiliation(did int, hid int,
primary key(did,hid)
,foreign key (did) references Doctor,
foreign key (hid) references Hospital);

----------------------Creating and inserting shift_room table--------------------------
create table shift_room (shift_id int,rid int, primary key(shift_id,rid),
foreign key(shift_id)
references Shifttable_Nurse, foreign key(rid) references room);

----------------------Creating and inserting admission_rooms table-------------------Changed
create table admission_rooms (aid int,rid int, start_time timestamp,end_time timestamp,primary key(aid,rid,start_time),foreign key(rid)
references room, foreign key(aid) references admission);

------------------------Creating and inserting Status table----------------------------
create table Status(
status_id int,
statuses_name varchar(20) ---All the statuses
);
--(status column. The status can be 1:'admitted waiting for a room', 2:'room assigned', 3:'discharged' )

-------------------------------------------
create table Message1
(
Message_id int,
Message_body varchar(500),
Message_time timestamp,
```

```sql
pid int,
did int,
primary key(Message_id),
foreign key(pid)references patient,
foreign key(did)references doctor);


-------------------------------------------------------------------------------------

create table admission_treatment( aid int, tid int, admit_date date, foreign key(aid) references admission, foreign key(tid) references
treatment);



insert into Hospital values(91,'CMC', '4822 North Street Baltimore MD', 6237681234,'Cathy@gmail.com');
insert into Hospital values(92,'Apollo', '3244 south Street Baltimore MD', 7234681234,'kayleigh@gmail.com');
insert into Hospital values(93,'7 Hills', '2345 North Street Baltimore MD', 66667681234,'john@gmail.com');
insert into Hospital values(94,'Christian Medical Hospital', '4367 East Street Baltimore MD', 6657681234,'robert@gmail.com');
insert into Hospital values(95,'Baruda', '4167 West Street Baltimore MD', 6987782139,'mithun@gmail.com');

 insert into Doctor values(101,'Jeff',8920182922,'jeff@gmail.com','surgeon','Ankle surgery at CMC',91);
 insert into Doctor values(102,'Bezos',8298192930,'bezosq@gmail.com','specialist','Eye checkup at Apollo ',92);
 insert into Doctor values(103,'David warner',8293810829,'davidwarner@gmail.com','physician','thorax surgery at 7 Hills',93);
 insert into Doctor values(104,'Braden',1467890768,'bradenmatt@gmail.com','ontomoligist','Elbow surgery at Christian Medical Hospital',94);
 insert into Doctor values(105,'Rachael',7678967891,'rachaelgreen@gmail.com','ENT','ENT checkup at Baruda',95);
----------------------Creating and inserting Nurse table--------------------------

 insert into Nurse values(106,'Alice',91);
 insert into Nurse values(107,'Avena',92);
 insert into Nurse values(108,'Ring',93);
 insert into Nurse values(109,'Nicole',94);
 insert into Nurse values(110,'Karen',95);

--------------------------Creating and inserting Room table--------------------------------

insert into Room values(111, 91, 'regular', 'First Floor, Building A, Room A',timestamp '2021-10-08 07:30:00.00', timestamp '2021-10-11 01:00:
00.00');
insert into Room values(112, 92, 'operating', 'Second Floor, Building A, Room B', timestamp '2021-10-03 12:00:00.00',timestamp '2021-10-04 02:
00:00.00');
insert into Room values(113, 93, 'ICU', 'First Floor, Building B, Room C', timestamp '2021-10-03 12:30:00.00',timestamp '2021-10-05 07:30:
00.00');
insert into Room values(114, 94,'operating', 'Third Floor, Building B,Room D',timestamp '2021-10-05 12:30:00.00', timestamp '2021-10-08 07:00:
00.00');
insert into Room values(115, 95, 'ICU', 'Second Floor Building C, Room E',timestamp '2021-10-08 08:00:00.00',timestamp '2021-10-08 16:00:
00.00');


------------------------Creating and inserting Shifttable_Nurse table--------------------------

 insert into Shifttable_Nurse values(116,106,111,timestamp '2021-10-9 06:00:00.00',timestamp '2021-10-9 08:00:00.00');
 insert into Shifttable_Nurse values(117,107,112,timestamp '2021-10-2 08:00:00.00',timestamp '2021-10-1 12:00:00.00');
 insert into Shifttable_Nurse values(118,108,113,timestamp '2021-10-3 12:00:00.00',timestamp '2021-10-1 14:00:00.00');
 insert into Shifttable_Nurse values(119,109,114,timestamp '2021-10-4 12:30:00.00',timestamp '2021-10-1 16:00:00.00');
 insert into Shifttable_Nurse values(120,110,115,timestamp '2021-10-5 12:10:00.00',timestamp '2021-10-5 20:00:00.00');
 insert into Shifttable_Nurse values(121,106,111,timestamp '2021-10-8 07:10:00.00',timestamp '2021-10-8 20:00:00.00');




-------------------------------Creating and inserting Patient table-------------------------------------

insert into Patient values(121,'Brazen','Male', date '1998-10-09','Belwood green , Maryland',6288392802,'brazenasile@gmail.com');
insert into Patient values(122,'Harry','Male', date '1997-10-10','Chapel square, Virginia', 5273892738,'harrystyles@gmail.com');
insert into Patient values(123,'Dimple','Female', date '1995-09-10','Greenhill square, LosAngeles',2737819729,'dimplekhadia@gmail.com');
insert into Patient values(124,'Isle','Female', date '2000-10-19','Fernely square, Florida',2837892990,'Isleington@gmail.com');
insert into Patient values(125,'Brown','Male', date '1994-09-09','Maiden choice, Colorado',2356781290,'browndane@yahoo.com');
-------------------------------Creating and inserting Admission table--------------------------------

insert into Admission values(126,101,146,date '2021-10-06', date '2021-10-08', 111,'the patient is discharged under the consultation of the
doctor','admitted waiting for a room','ankle surgery',121,91);
insert into Admission values(127,102,147,date '2021-10-10', date '2021-10-16', 112,'the patient is discharged and should be kept under house
observation','room assigned','knee surgery',122,92);
insert into Admission values(128,103,148,date '2021-10-12', date '2021-10-16', 113,'the patient is discharged and should follow all
prescriptions given by doctor','discharged','thorax surgery',123,93);
insert into Admission values(129,104,149,date '2021-10-13', date '2021-10-13', 114,'the patient is discharged and should be kept under house
observation','admitted waiting for a room','eye checkup',124,94);
insert into Admission values(130,105,150,date '2021-10-15', date '2021-10-15', 115,'the patient is discharged and should be kept under doctor
supervision','room assigned','ENT checkup',125,95);
insert into Admission values(131,106,151,date '2021-10-15', date '2021-10-15', 115,'the patient is discharged and should be kept under doctor
supervision','room assigned','ENT checkup',125,95);
insert into Admission values(192,104,149,date '15-10-21', date '18-10-21',114,'the patient is discharged and should be kept under house
observation','discharged','eye checkup',124,94);
insert into Admission values(101,146, date '15-12-21', date '08-10-21',        111,'the patient is discharged','discharged','ENT Check Up',
160,91);
insert into Admission values(502,101,146,date '15-12-21', date         '08-10-21',111 ,'the patient is discharged','discharged','ENT Check Up',
160,91);
insert into Admission values(503,101,146,date '15-12-21        ', date '18-12-21',111,'admitted waiting for a room','ENT Check Up',160,91);
insert into Admission values(504,101,146,date '15-12-21', date '20-12-21',111,'admitted waiting for a room','ENT Check Up',160,91);
```

```sql
insert into Admission values(505,101,146, date '15-12-21', date'21-12-21',111,'admitted waiting for a room','ENT Check Up',121,91);
insert into Admission values(126,101,146, date '06-10-21', date '08-10-21',111,'the patient is discharged        discharged','ankle surgery',
121,91);
insert into Admission values(127,102,147, date '10-10-21', date '08-10-21',112,'the patient is discharged        discharged','knee surgery',
122,91);
insert into Admission values(128,103,148, date '12-10-21', date '16-10-21', 113, 'the patient is discharged and should follow all
prescriptions given by doctor','discharged','thorax surgery',123,91);
insert into Admission values(129,104,149, date '13-10-21', date '15-10-21',114, 'the patient is discharged and should be kept under house
observation','admitted waiting for a room','eye checkup',124,94);
insert into Admission values(130,105,150, date '15-10-21', date '19-10-21',115, 'the patient is discharged and should be kept under doctor
supervision','discharged','ENT checkup',125,95);
insert into Admission values(194,104,149, date'19-10-21', date '22-10-21',114,'the patient is discharged and should be kept under house
observation','admitted waiting for a room','eye checkup',124,94);
select * from admission;
select * from admission_rooms;
--------------------------------Creating and inserting Treatment table------------------------------------

insert into Treatment values(131,126, date '2021-10-06','anesthesia', 'full body anesthesia');
insert into Treatment values(132, 127, date '2021-10-10','surgery', 'ankle surgery');
insert into Treatment values(133,128, date '2021-10-12','chest scan','x-ray');
insert into Treatment values(134,129, date '2021-10-13','surgery', 'leg surgery');
insert into Treatment values(135,130, date '2021-10-15','brain scan','x-ray');
--------------------------------Creating and inserting Drug table----------------------------------------------

insert into drug values(136, 'Amlodipine', '500mg a time', '1 time perday');
insert into drug values(137, 'Metoprolol', '1000mg a time', '2 time perday');
insert into drug values(138, 'Albuterol', '500mg a time', '3 time perday');
insert into drug values(139, 'Omepprazole', '1000mg a time', '2 time perday');
insert into drug values(140, 'Atrovastatin','500mg a time', '3 time perday');
-----------------------------------Creating and inserting Drug_allergy table------------------------------------

foreign key(pid)references patient);
insert into drug_allergy values(51,121,'Sneezing');
insert into drug_allergy values(52,122,'Coughing');
insert into drug_allergy values(53,123,'Bowel movement');
insert into drug_allergy values(54,124,'Sizzures');
insert into drug_allergy values(55,125,'Hypertension');
--------------------------Creating and inserting Prescription table----------------------------------------------

insert into Prescription values(146,136,126, date '2021-10-14', 1,2);
insert into Prescription values(147,137,127, date '2021-10-16', 2,2);
insert into Prescription values(148,138,128, date '2021-10-20', 1,2);
insert into Prescription values(149,139,129, date '2021-10-24', 2,2);
insert into Prescription values(150,140,130, date '2021-10-30', 1,2);
-----------------------Creating and inserting Message table----------------------------------------------

insert into Message values(1,'treatment should be done immediately', timestamp '2021-10-11 09:00:00.00',121,101);
insert into Message values(2,'treatment success', timestamp '2021-10-3 10:00:00.00',122,102);
insert into Message values(3,'no treatment needed', timestamp '2021-10-14 09:30:00.00',123,103);
insert into Message values(4,'treatment is scheduled', timestamp '2021-10-16 10:40:00.00',124,104);
insert into Message values(5,'treatment in progress', timestamp '2021-10-17 10:45:00.00',125,105);
---------------------------Creating and inserting Treatment_list table--------------------------------------------Changed

insert into treatment_list values(151,131,'hormonal therapy',126);
insert into treatment_list values(152,132,'acupuncture',126);
insert into treatment_list values(153,133,'abscopal treatment',127);
insert into treatment_list values(154,134,'anesthesia',127);
insert into treatment_list values(155,135,'CT scan',128);
----------------------------Creating and inserting Doc_hospital_affiliation table---------------------------------------

insert into Doc_hospital_affiliation values(101,91);
insert into Doc_hospital_affiliation values(102,91);
insert into Doc_hospital_affiliation values(103,91);
insert into Doc_hospital_affiliation values(104,92);
insert into Doc_hospital_affiliation values(104,93);
----------------------Creating and inserting shift_room table--------------------------

insert into shift_room values(116,111);
insert into shift_room values(117,112);
insert into shift_room values(118,113);
insert into shift_room values(119,114);
insert into shift_room values(120,115);
----------------------Creating and inserting admission_rooms table--------------------Changed

insert into admission_rooms values(126,111,timestamp '2021-10-11 09:00:00.00',timestamp '2021-10-13 09:00:00.00');
insert into admission_rooms values(127,112,timestamp '2021-10-11 10:00:00.00',timestamp '2021-10-16 09:00:00.00');
insert into admission_rooms values(128,113,timestamp '2021-10-11 11:00:00.00',null);
insert into admission_rooms values(129,114,timestamp '2021-10-11 12:00:00.00',null);
insert into admission_rooms values(130,115,timestamp '2021-10-11 01:00:00.00',null);
insert into admission_rooms values(502,112,timestamp '2021-10-08 11:00:00.00',timestamp '2021-10-11 09:00:00.00');
insert into admission_rooms values(503,113,timestamp '2021-10-10 12:00:00.00',timestamp '2021-10-11 09:00:00.00');
insert into admission_rooms values(504,111,timestamp '2021-10-11 01:00:00.00',timestamp '2021-10-13 09:00:00.00');
-------------------------Creating and inserting Status table----------------------------

--(status column. The status can be 1:'admitted waiting for a room', 2:'room assigned', 3:'discharged' )
insert into Status values(1,'admitted waiting for a room');
insert into Status values(2,'room assigned');
```

```
insert into Status values(3,'discharged');

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insert into Message values(1,'treatment should be done immediately', timestamp '2021-10-11 09:00:00.00',121,101);
insert into Message values(2,'treatment success', timestamp '2021-10-3 10:00:00.00',122,102);
insert into Message values(3,'no treatment needed', timestamp '2021-10-14 09:30:00.00',123,103);
insert into Message values(4,'treatment is scheduled', timestamp '2021-10-16 10:40:00.00',124,104);
insert into Message values(5,'treatment in progress', timestamp '2021-10-17 10:45:00.00',125,105);

--------------------------------------------------------------------------------

 insert into admission_treatment values(126,131,date '2021-10-06');
insert into admission_treatment values(127,132,date '2021-10-12');
insert into admission_treatment values(128,133,date '2021-10-13');
insert into admission_treatment values(129,134,date '2021-10-15');
insert into admission_treatment values(130,135,date '2021-10-15');


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```